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Microphone plug and socket pinouts

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POPULAR MICROPHONE PLUG AND SOCKET PINOUTS.

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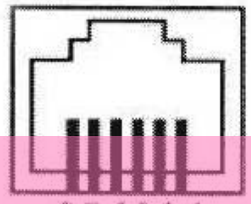
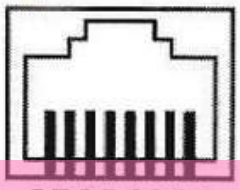
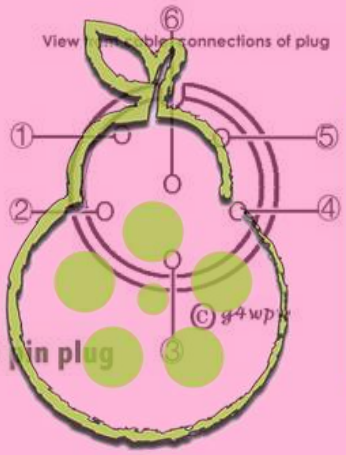
6 Pin modular



8 pin modular



diagrams © g4wpw



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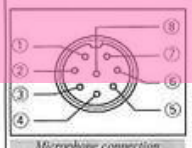
KENWOOD MICROPHONES .

Five Most Popular Connections

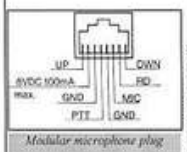
The following diagrams demonstrate different types of connections for microphones, packet data and amplifiers. These diagrams will help answer some of the most commonly asked questions regarding connections to Kenwood radios.



Microphone connection diagram

8 Pin Round Microphone Connection

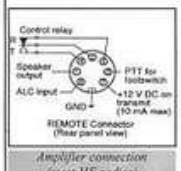
Pin 1	Microphone
Pin 2	Push To Talk
Pin 3	Down
Pin 4	Up
Pin 5	8vdc (150ma Max)
Pin 6	RX Audio (Some Models)
Pin 7	Mic Ground
Pin 8	Ground



Modular microphone plug

Modular Microphone Plug

Pin 1	Up
Pin 2	8vdc (100ma Max)
Pin 3	Ground
Pin 4	Push To Talk
Pin 5	Ground
Pin 6	Microphone
Pin 7	RX Audio (Some Models)
Pin 8	Down



Amplifier connection (most HF radios)

Amplifier Connection (Most HF Radios)

Pin 2	Ground (Shield)
Pin 4	Relay
Pin 6	ALC

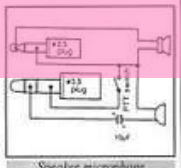
Speaker Microphone Connection

2.5mm Plug

Tip	Speaker
Sleeve	Speaker Ground & PTT

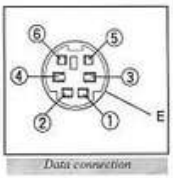
3.5mm Plug

Tip	No Connection
Center Ring	Microphone
Sleeve	PTT



Speaker microphone connection

Data Connection



Data connection

Pin1	Packet Data Input (Microphone)
Pin 2	Ground (Microphone Ground)
Pin 3	Packet Standby (Push To Talk)
Pin 4	9600bps Rx Audio Output
Pin 5	1200bps Rx Audio Output
Pin 6	Squelch Control Output
Shell	Earth (GND)

MORE KENWOOD CONNECTIONS INFO.pdf file

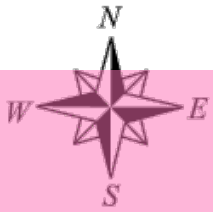
KENWOOD MC30-MC35 MICROPHONE.

KENWOOD MC-42S MICROPHONE.

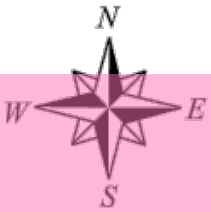
KENWOOD MC-43 MICROPHONE.

KENWOOD MC-44 MICROPHONE.

KENWOOD MC-45 MICROPHONE.



KENWOOD MC-46 MICROPHONE.



KENWOOD MC-47 MICROPHONE.

KENWOOD MC-48B MICROPHONE.

KENWOOD MC-55 MICROPHONE.

KENWOOD MC-57 MICROPHONE. (photo only)

KENWOOD MC-60 MICROPHONE.

KENWOOD MC-60A MICROPHONE.

KENWOOD MC-80 MICROPHONE.

KENWOOD MC-85 MICROPHONE.

KENWOOD MC-90 MICROPHONE.

KENWOOD TH22A SPEAKER/MIC.

KENWOOD TH78A SPEAKER/MIC.

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KENWOOD-TS120S-120V-700G-
700S-130S-130V-490-520S-530S-
820S-830S-
TR2300-TR2200-TR7200-TR7400A-
TR7500

PIN1 MIC
PIN2 PTT
PIN3 PTT/EARTH
PIN4 SCREEN AND EARTH

7 PIN REMOTE PLUG/SOCKET.

KENWOOD-TS120-130-140-180-430-440-450-530-570-680-690-
830-870-940-950.

PIN1 SPEAKER OUT
PIN2 RELAY COMMON GROUND/EARTH
PIN3 PTT FOR FOOT SWITCH
PIN4 RELAY CLOSED ON TRANSMIT
PIN5 RELAY OPEN ON TRANSMIT
PIN6 ALC INPUT
PIN7 +12VOLTS ON TRANSMIT (10 Ma Max)

PLUG SHELL EARTH.

---

6. PIN ACC PLUG/SOCKET.
KENWOOD-TS-450-690-570-850-870-950.
PIN1 SIGNAL GROUND/EARTH
PIN2 TRANSMIT DATA
PIN3 RECEIVE DATA
PIN4 CTS ENABLE TX
PIN5 RTS ENABLE RX
PIN6 N/C
SHELL EARTH

---

13 PIN ACC2 PLUG.

KENWOOD-TS440-450-680-690-570-711-790-811-850-870-940-950
PIN1 N/C
PIN2 N/C
PIN3 RX AUDIO OUT
PIN4 SCREEN FOR PIN3
PIN5 SQUELCH CONTROL OR N/C
PIN6 S/METER OUTPUT
PIN7 N/C
PIN8 CHASSIS/GROUND
PIN9 PTT- STANDARD MIC INPUT IS MUTED
PIN10 N/C
PIN11 MIC INPUT
PIN12 SCREEN FOR PIN 11
PIN13 PTT- STANDARD MIC INPUT IS ACTIVE
SHELL EARTH

KENWOOD-TR9000-9030-9130-9300-9500-7700-7730-7750-7800-7850-7930-7950-8400
PIN1 MIC
PIN2 PTT
PIN3 DOWN
PIN6/CENTER EARTH
PIN4 UP
PIN5 NC + 8VOLT SOME MODELS

KENWOOD-TR7600-TR7625
PIN1 MIC
PIN2 PTT
PIN3 N/C
PIN4 CHASSIS/GROUND
PIN5 MIC SCREEN

KENWOOD-TS480 (8 Pin modular)
PIN1 UP

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PIN2 +8 VOLTS
PIN3 GND
PIN4 PTT
PIN5 MIC GND
PIN6 MIC
PIN7 N/C
PIN8 DOWN

KENWOOD-TS-50-60-140-430-440-450-570-660-670-780-930-430-670-711 TS-811-850-870-930-940-950-440-701-790-680-690-TS-2000
TR-3200-7900-7950-50-751-851
TM-201A-201B-401A-TM401B-211-221-231-241-321-331-3530-421-431-441-521-531-541
TM-621-631-701-721-731-2530-2550-2570
TW4000-4100
PIN1 MIC
PIN7.8 SCREEN EARTH
PIN2 PTT
PIN3 DOWN
PIN4 UP
PIN5.6 NC + 8VOLT SOME MODELS

MODULAR MIC PLUG/SOCKET.

KENWOOD-TM-251-255-261-451-455-461-641-642-732-733-741-742-941-942
TMG-707-A/7A.

YAESU MICROPHONES.

YAESU-MB1B8.MH-1B8 MICROPHONES

YAESU-MD-1C8 MICROPHONE

YAESU YM47.YM49 MICROPHONES

YAESU YM50 MICROPHONE

YAESU YM34.YM35.YM36.YM37.YM38.MICROPHONES

YAESU YD148 MICROPHONE

YAESU YD844 MICROPHONE

YAESU YE7A MICROPHONE

YAESU MH15D8 MICROPHONE

YAESU MH25A8J MICROPHONE

YAESU MH31 MICROPHONE

YAESU MH36 MICROPHONE

YAESU MH48 MICROPHONE

YAESU MD100 MICROPHONE

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YAESU MD200 MICROPHONE

YAESU-FT736-FT747GX-FT757GX-FT650-FT655-FT767-FT890-FT920-FT990-FT990D-
FT480R-FT847
FT1000-FT1000D-FT1000MP + MKV

PIN1 MIC UP
PIN2 EARTH (+ 5VOLTS FT847-FT920-FT1000MP)
PIN3 DOWN
PIN4 FAST SCAN
PIN5 EARTH
PIN6 PTT
PIN7 SCREEN/EARTH
PIN8 MIC

YAESU FT221R-FT101B-FT101E-FT101Z-FT101ZD-FT902-FT902DM. (see YD148/YD844 microphone above.)

PIN1 MIC SCREEN/EARTH (PTT EARTH ON FT101B/101E.FT101Z/101ZD.FT902/902DM.)
PIN2 MIC
PIN3 PTT
PIN4 EARTH ON FT221R.(N/C ON FT101Z/101ZD.FT101B/101E.FT902/902DM.)

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YAESU FT200-FT201-FT125C-FTC212-FT2B-FT300C-FT224-FT225RD-FT2FB-FT223-
FT220-FTC212-FT301.
FT7-FT227R-FT401B-FT501-FL101-FTDX401-FTDX-560.

(See YD-148 microphone above.)

YAESU FT840-FT2200-FT990.

8 PIN CONNECTOR.
PIN4 (external speaker some models)(black)
PIN6 PTT (red)
PIN7 GRND (green)
PIN8 MIC (yellow)

YAESU FT2400-FT2500.

8 PIN CONNECTOR.
PIN2 (external speaker some models)(black)
PIN3 PTT (red)
PIN5 GRND (green)
PIN4 MIC (yellow)

YAESU FT290R-FT730-FT790R

PIN1 MIC SCREEN/EARTH
PIN2 MIC
PIN3 PTT
PIN4 + 12VOLT (+ 5VOLT FT730)
PIN5 SPEAKER
PIN6 UP
PIN7 DOWN

YAESU FT708R-FT208R HAND HELD.

PIN1 MIC (white)
PIN2 SPEAKER (black)
PIN3 PTT (red)
PIN4 MIC SCREEN
PIN5 NC
PIN6 SPEAKER (blue)

YAESU-FT100-FT90-FT8100 (6 pin Modular Plug) (SEE MH36 microphone above.)

PIN1 Multi-function switching for P,P1,P2 SW2.
PIN2 N.C. 9600bps packet data out FT90
PIN3 + 9VOLT
PIN4 EARTH
PIN5 MIC.
PIN6 SW1.PTT,UP,DOWN,Acc

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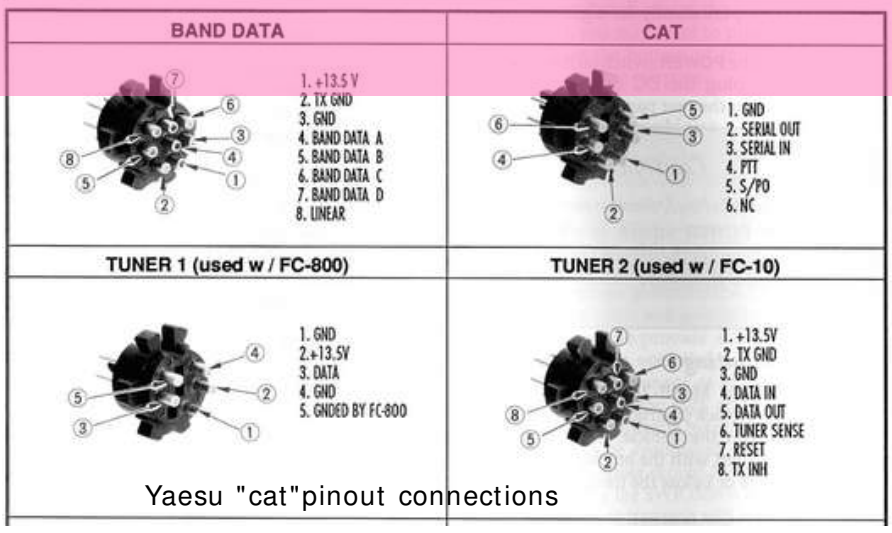
CLICK FOR YAESU FT100 SERIES DATA CONNECTION DIAGRAM

Connector Pinouts



Yaesu "cat"pinout connections

YAESU-FT897-FT857-FT817-FT900 (8 pin Modular Plug)

PIN1 DOWN
PIN2 UP
PIN3 + 5VOLT
PIN4 MIC EARTH
PIN5 MIC
PIN6 PTT
PIN7 GROUND
PIN8 FAST SCAN

YAESU-FT2800-FT7800M-FT8800E-FT8900R (See MH48 microphone above)

PIN1 SW2
PIN2 SW1
PIN3 + 8VOLT
PIN4 GROUND
PIN5 MIC
PIN6 PTT

YAESU-FTDX9000D (3 pin XLR Plug front panel) PLUS (8 pin Plug rear panel.)
(XLR PLUG FRONT PANEL.)
PIN1 MIC GRND.
PIN2 MIC HOT.
PIN3 MIC COLD.

(8 PIN PLUG REAR PANEL.)
PIN1 UP.
PIN2 + 5 VOLTS.
PIN3 DOWN.
PIN4 FAST SCAN.
PIN5 GROUND.
PIN6 PTT.
PIN7 MIC GROUND.
PIN8 MIC.

(Click for more) FTDX9000D data.

ICOM MICROPHONES.

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ICOM-IC7400-IC746-IC756PRO-IC7800

PIN1 MIC + DC VOLTS FOR ICOM ONLY MICROPHONE
PIN2 + 8VOLTS 10Ma TO AVOID DAMAGING THE REGULATOR DO NOT SHORT TO GROUND
PIN3 UP/DOWN
PIN4 SQUELCH
PIN5 PTT
PIN6 GROUND
PIN7 MIC SCREEN/EARTH
PIN8 AUDIO OUT

ICOM-IC703-IC706MK1-IC706MK2-IC706MK3-IC2000 (8 Pin Modular Plug)

PIN1 + 8VOLT
PIN2 UP/DOWN
PIN3 AUDIO OUT
PIN4 PTT
PIN5 MIC GROUND
PIN6 MIC
PIN7 GROUND/EARTH
PIN8 SQUELCH

ICOM-IC-202-215-22S-245-280-402-502

PIN1 MIC (yellow)
PIN2 PTT (red)
external speaker plug (green)
PIN4 GROUND.(black)

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ICOM-IC-211

PIN1 MIC
PIN2 PTT
PIN3 N/C
PIN4 GROUND

ICOM-IC-120-271A-271E-275-1200-1201-1271-1275-228-229-22U-2400-25-27-28-2500-255-260-290-3200
IC-3210-3220-37A-38A-375-45-47-471-475-48-490-505-551-560-575-707-720-725-726-728
IC-729-730-735-737-740-745-751-761-765-781-821-900-901-910X.

PIN1 MIC (yellow)
PIN2 REPEATER TONE (+ 8/9 volts some models)
PIN3 UP/DOWN
PIN4 N/C (squelch some models)
PIN5 PTT(red)
PIN6 EARTH (black)
PIN7 MIC SCREEN
PIN8 N/C (green)(external speaker some models)

ICOM-IC251E-IC451E. (See SM5 hand mic & SM5 desc mic.)

PIN1 MIC (white. connection at + 9VOLTS above earth)
PIN2 NC
PIN3 NC
PIN4 NC
PIN5 PTT (red)
PIN6 PTT (black)
PIN7 MIC SCREEN
PIN8 NC

ICOM... SM20 MIC CONNECTIONS.

ICOM... IC-HM7 HAND MIC PHOTO.

ICOM... IC-HM7 HAND MIC SCHEMATIC.

ICOM...IC-SM2 MIC CONNECTIONS.

ICOM...IC-SM5 DESC MIC CONNECTIONS.

ICOM... SM6 MIC CONNECTIONS.

ICOM... SM10 MIC CONNECTIONS.

ICOM... IC-HM12 MIC CONNECTIONS.

MORE IC-HM12 - SM20 MIC INFORMATION.

ICOM... IC-HM5 MIC CONNECTIONS.

ICOM... IC-HM15 MIC CONNECTIONS.

ICOM...HM12 MIC CONNECTIONS.

ICOM...HM103 MIC CONNECTIONS.

ICOM...HM151 MIC CONNECTIONS (IC-7000).

ICOM...HM77-HM78-HM79-HM95-HM97 MIC CONNECTIONS.

IC-821H.... ACC SOCKET CONNECTIONS.

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MORE ICOM MICROPHONE INFO

MODEL	PIN NUMBERS							
	1	2	3	4	5	6	7	8
IC740	mic	9 volts	n/c	n/c	ptt	earth	mic earth	n/c
IC730	mic	8 volts	up/down	n/c	ptt	earth	mic earth	n/c
IC740	mic	8 volts	up/down	squelch	ptt	earth	mic earth	n/c
IC745	mic	8 volts	up/down	squelch	ptt	earth	mic earth	n/c
IC751	mic	8 volts	up/down	squelch	ptt	earth	mic earth	audio out
IC505	mic	8 volts	up/down	squelch	ptt	earth	mic earth	n/c
IC560	mic	9 volts	up/down	squelch	ptt	earth	mic earth	n/c
IC255	mic	9 volts	up/down	n/c	ptt	earth	mic earth	n/c
IC260	mic	9 volts	up/down	n/c	ptt	earth	mic earth	n/c
IC290	mic	8 volts	up/down	squelch	ptt	earth	mic earth	n/c
IC25	mic	8 volts	up/down	squelch	ptt	earth	mic earth	n/c
IC251	mic	9 volts	n/c	n/c	ptt	earth	mic earth	n/c
IC271	mic	8 volts	up/down	squelch	ptt	earth	mic earth	audio out
IC45	mic	8 volts	up/down	squelch	ptt	earth	mic earth	audio out
IC490	mic	8 volts	up/down	squelch	ptt	earth	mic earth	tone
IC451	mic	9 volts	up/down	squelch	ptt	earth	mic earth	n/c
IC471	mic	8 volts	up/down	squelch	ptt	earth	mic earth	audio out
IC120	mic	8 volts	up/down	squelch	ptt	earth	mic earth	audio out